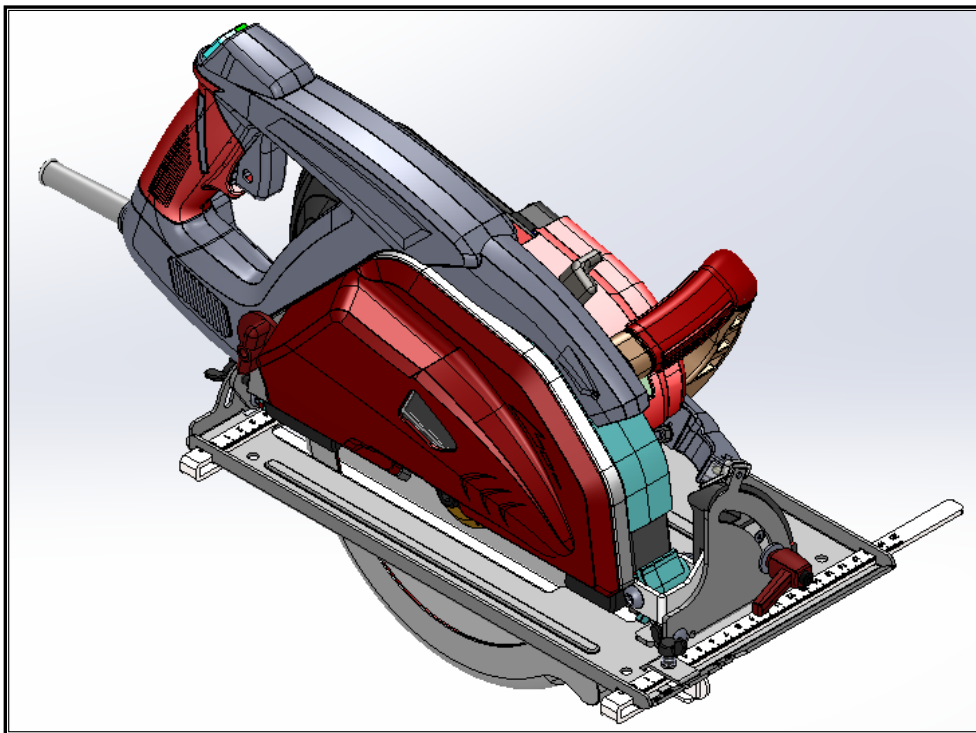


# **9" (230mm) SLUGGER METAL CUTTING SAW INSTRUCTION MANUAL**



**Double Insulation**



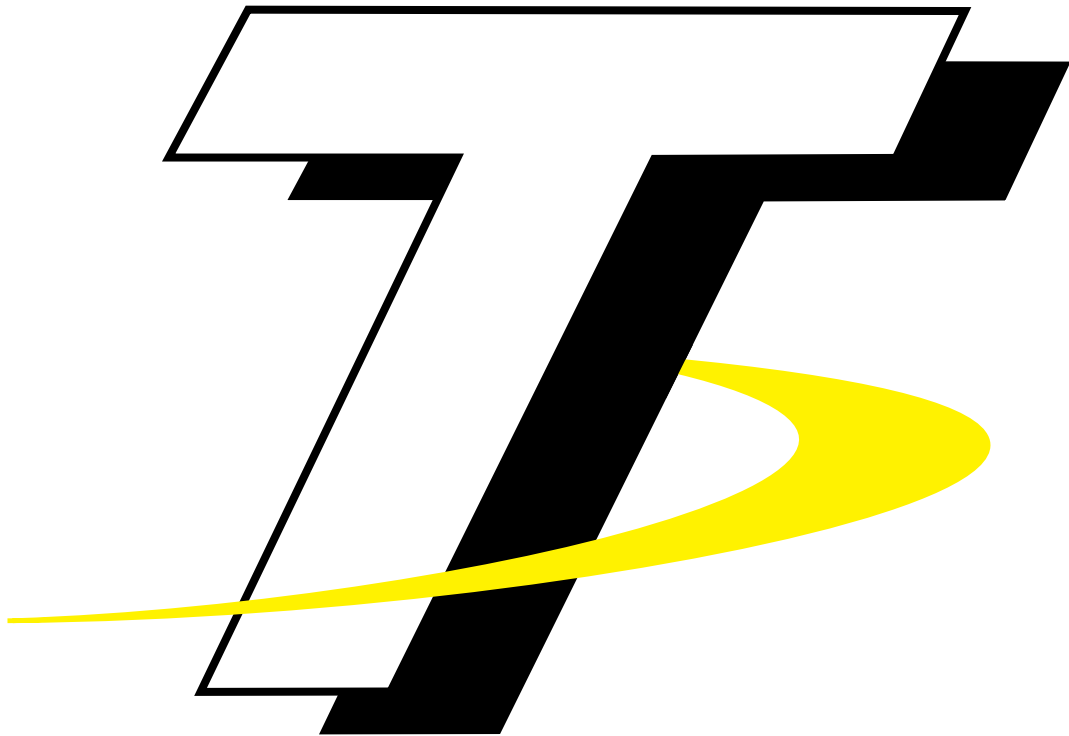
Slugger order number: 69908120001

**Original instruction**

Distributed by: **Trick-Tools.com**

Trick-Tools  
75 Truman Road  
Pella, IA 50219

Phone: 1-877-VAN-SANT  
E-mail: [sales@trick-tools.com](mailto:sales@trick-tools.com)



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## Intended use

The metal cutting saw is powerful enough to cut steel sheet metal as thick as ¼" (6mm). Metal cutting saws are designed to rapidly cut lengths or pieces of zinc coated, steel sheet metal and various metals without heating up either the blade or the material.



**WARNING:** To reduce the risk of injury, read the instruction manual.



**WARNING! Read all safety warnings and all instructions.** Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

## ADDITIONAL SAFETY RULES OF METAL CUTTING SAW

**CAREFULLY READ THE FOLLOWING SAFETY WARNINGS PRIOR TO CONNECTING THE METAL CUTTING SAW TO POWER.**

1. Must keep the safety device in the fixed position, and work according to the order. Never wedging or binding the safety device below and must use the safety device. Before using the metal cutting saw every time, must ascertain the safety device.

Caution: It probably bends the safety device below when the circular saw fall to the ground, and it should not be used again til check result is OK after repairing.

2. The blade should be kept clean and sharp. Breakdown and rebound can be lowered to the minimum limitation with the proper maintenance.

Danger: The hand must depart from the sawing area when operating. Do not touch blade when blade

is rotating, don't put the work-piece in either. Do not take the process-work-piece sawed by hand when blade is still rotating. Caution: The blade will slide a period of time after turning off the Switch.

3. Adjustment. Before sawing, ascertain the adjustment of saw depth is right.
4. Must select the right blade. Use the suitable saw blade within the range shown on nameplate.
5. Guide cord should be apart from sawing place and be fixed when sawing, and ensure it can't be twined by work-piece when sawing. The tool must be held steadily when sawing, and use the appropriate work-piece to support, and put the guide cord far away from the work-piece.
6. Do not use cutting oil while cutting.
7. Do not use blades which are deformed or cracked.
8. Always use safety glasses. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses.
9. To avoid possible hearing damage, wear ear plugs when using power tool.

## Motor Specifications and Electrical Requirements

### Power Supply and Motor Specifications

The AC motor used in this saw is a universal. Nonreversible type having the following specifications:

Model No.	60250
Maximum Developed H.P	2.4
Voltage	120
Amperes	15
Hertz (Cycles)	60
Phase	Single
RPM	2300
Rotation of Shaft	Counter-clockwise

### Power Connections

A separate electrical circuit should be used for your tools. This circuit should not be less #12 wire and should be protected with a 20 Amp fuse. Have a certified electrician replace or repair a worn cord immediately and connect the motor as nameplate mentions. Running low voltage will damage the motor.

**WARNING: DO NOT EXPOSE THE TOOL TO RAIN OR OPERATE THE TOOL IN DAMP AREAS.**

## ASSEMBLY AND ADJUSTMENT INSTRUCTIONS

### WARNING:

For your own safety, never connect the plug to a power source outlet until all assembly steps are complete and you have read and understood the safety and operating instructions. The safety cover is attached to the saw for your protection. Should the safety cover become damaged, do not use the saw until damaged cover has been replaced. If the safety cover becomes dirty, or chip adheres to it. Clean the safety cover carefully with a damp cloth.

# Installing a New Saw Blade

**WARNING:** To prevent an accident or personal injury, always turn off the trigger switch and disconnect the power plug from the receptacle before removing or installing a blade. Only use blades designed for metal cutting saws. The use of any abrasive wheels, alternative purpose wheels, or different size blades could void warranty. Check regularly that the blade is flat, sharp and free of any defects or damage. Ensure the saw is disconnected from Power.

1. Push the lower guard lever (A) Refer to Fig.1

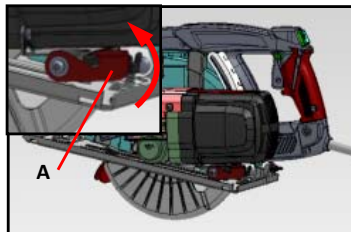
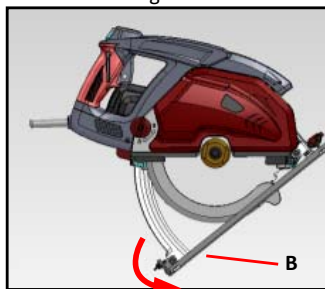


Fig.1

2. Open the plate to the maximum (B) Refer to Fig.2



3. Use the open-end wrench "D" to hold the flange, use 6mm HEX wrench "C" to loosen the arbor screw in counterclockwise direction.  
Refer to Fig.3

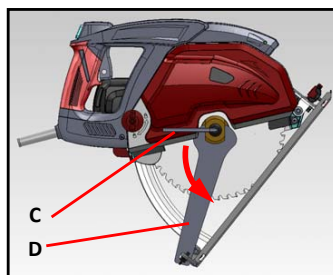


Fig.3

4. Remove the HEX wrench, open-end wrench and arbor screw, slide open lower blade guard, and then remove blade.  
Refer to Fig.4

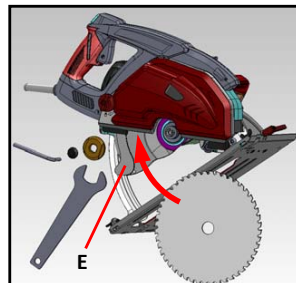


Fig.4

5. Insert new blade, flange and arbor screw in proper order.  
Use the open end wrench to hold the flange and use the HEX wrench to tighten the arbor screw in clockwise direction.  
Refer to Fig.5

**Note: Put the blade on in right direction.**

**The arrow on blade must be same direction as arbor turn.**

Note: Blade must be secure between inner and outer flanges.

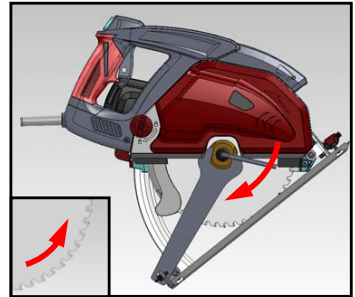


Fig.5

## Pocket Cutting

### WARNING:

**To reduce the risk of electric shock, check work area for hidden pipes and wires before making pocket cuts.**

Pocket cuts are made in the middle of the work piece when it can't be cut from an edge. If you must use a circular saw to make a pocket cut, USE EXTREME CAUTION. To maintain control of the saw during pocket cutting, keep both hands on the saw. Refer to Fig.6

1. Beginning at a corner, line up the sight line with your cutting line. Tilt the saw forward, firmly fixing the front of the shoe on the work piece. The blade should be just above cutting line, but not touching it. Raise the (B) lower guard using the lower guard lever (A).
2. Pull the trigger and allow the motor to reach full speed before beginning cut. Using the front of the shoe as a hinge point, gradually lower the back end of the saw into the work piece. Release the lower guard lever (A).
3. When the shoe rests flat against work piece, advance the saw to the far corner. Release the trigger and allow the blade to come to a complete stop before removing it from work piece. Repeat the above steps for each side of the opening.

Use a small hand saw to finish the corners if they are not completely cut through.

We recommend using a jig saw or a similar tool to cut this type of pocket cut.

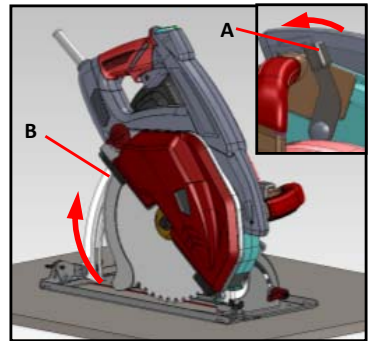


Fig.6

## Usage for bevel

Release the lock lever "A", and the wing nut "B", then change the bevel plate angle from  $0^{\circ}$  to  $45^{\circ}$ . Fix the lock lever "A" and wing nut "B". Refer to Fig.7

**WARNING:** Be sure to disconnect the power plug.

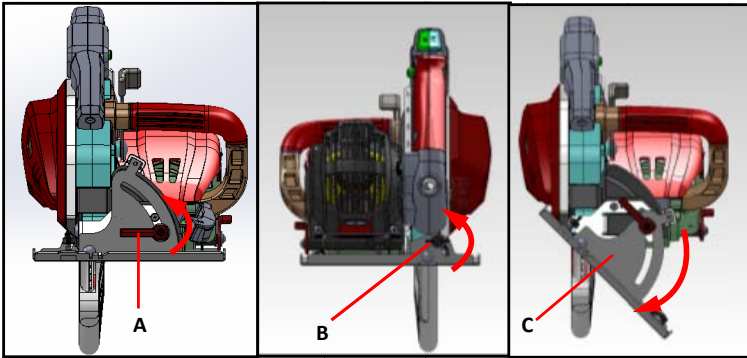


Fig.7

## LASER

The instructions for laser usage.

1. Push the left button "A" to turn on the laser (B), push again to turn off. Refer to Fig.8
2. The laser will change according to the angle plate for guiding the cut. Example: the bevel indicator at (A)  $0^{\circ}$  the laser is at the notch (B), if the bevel indicator at  $45^{\circ}$  then laser is at the notch (C) Refer to Fig.9 (other angles are without reference).

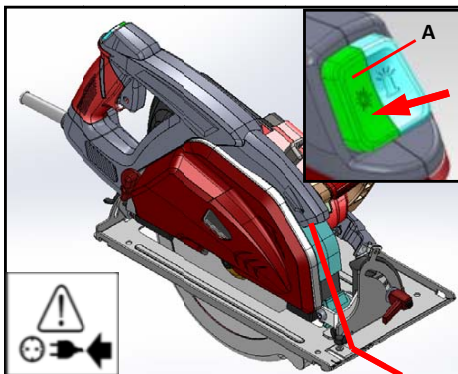


Fig.8

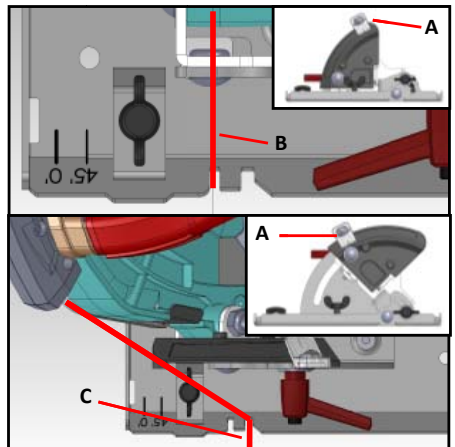


Fig.9

# ALIGNING THE LASER GUIDE LINE

## DANGER:

Laser radiation. Avoid direct eye contact with light source

## WARNING:

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposures. When you adjust the laser please don't tune on switch. Fig.10. Otherwise starting the blade can be dangerous.

1. Adjusting the laser: Tighten or loosen the (A), for adjusting the laser indication direction. Adjusting tooling: M2 HEX wrench (A) as Fig.11
2. Adjusting the laser indication direction to be same line as cutting line. Adjusting tooling: parallel screw driver (A) Fig.12
3. Adjust the laser line (B) on the notch (C) then set up the bevel scale at the 0° position. Fig.13

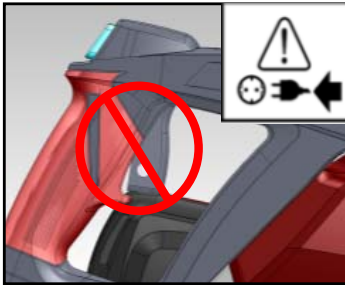


Fig.10

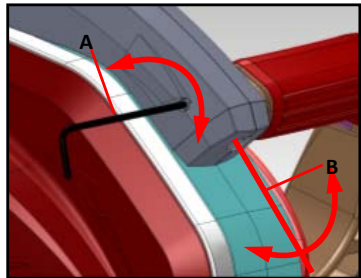


Fig.11

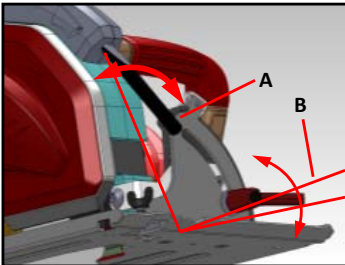


Fig.12

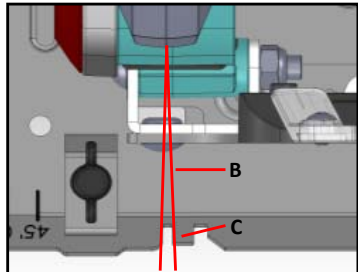


Fig.13

## How to use LED light

LED is used when the condition is dark and user can see the work piece and blade from the window.

- Push the LED button(A) to start the LED light, push again to turn off, as Fig.14

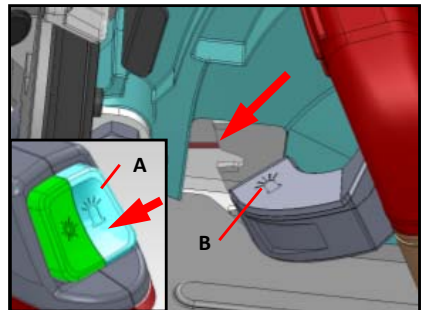


Fig.14

# CUTTING DEPTH ADJUSTMENT

1. Pull up & loosen the Lock Lever (A) first Fig.15
  2. Lift the back of the saw away from the base plate until the approximate depth is achieved.
  3. Ensure the Lock Lever (A) Fig.16 is tightened securely after the depth adjustment is made.
- To adjust the lock made. To adjust the lock and unlock positions (if necessary) simply pull the lever towards the hand-grip of the saw, rotate it slightly as required.

Warning: 1. Make sure the motor is stopped before changing the cutting height.

2. Cutting with a loose Lock Lever invites injury.

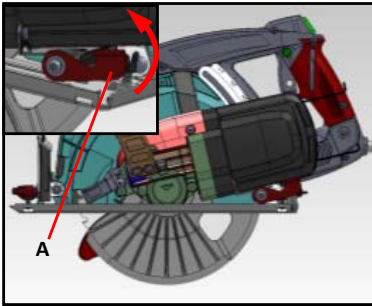


Fig.15

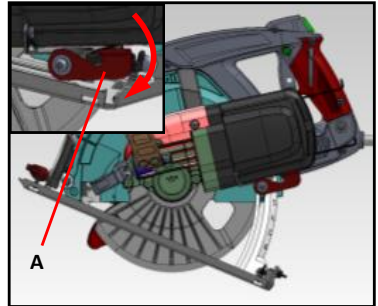


Fig.16

## OPERATION

### Operation of Switch

Press the stop button (A) first and pull the trigger (B) at the same time to start rotating. To stop rotating, release trigger. Fig.17

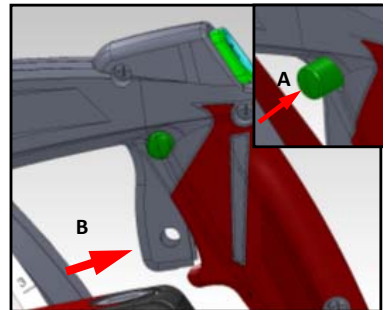


Fig.17

### Operation

Please use right hand (A) to hold the rear handle, and left hand (B) to hold the tool after the blade reaches the maximum speed rate and push forward along the surface of work piece. Keep moving smoothly until the cut is finished.

Fig.18

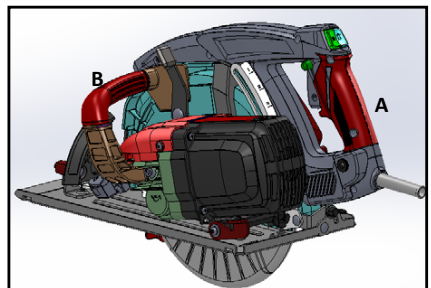


Fig.18

## DIRECTION OF SAWING

Align saw blade to the right of the operator.

## OVERLOAD PROTECTION

Under extreme overload, the current consumption may considerably exceed the permissible nominal value. In this case, overload protection prevents the motor from burning out. The saw has a reset button (A) that will restart the motor after it shuts off due to extreme overload, if the motor stops during operation, turn the ON/OFF switch to the OFF position. Unplug the saw from its power source. Wait about three minutes for the motor to cool down. Push in on the reset button and turn the switch to the on position. Refer to Fig.19

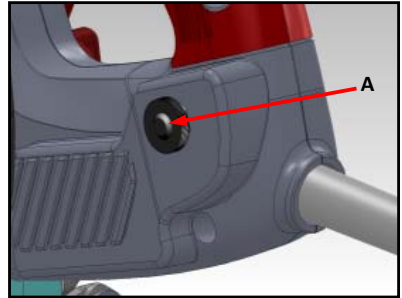


Fig.19

## THE GUIDE RULER

The guide ruler can be used to cut a straight sawing line along the workpiece and can be affixed at the front of base with the wing nut. The guide ruler (C) can be used on the right side of the blade only, shown in Fig.20. Using the guide provides accurate cuts compared to free- hand cutting. Locate the guide into the mounting slots (A) at the front of the baseplate and tighten the wing screw (B) to lock it at the desired cut width. Refer to Fig.20

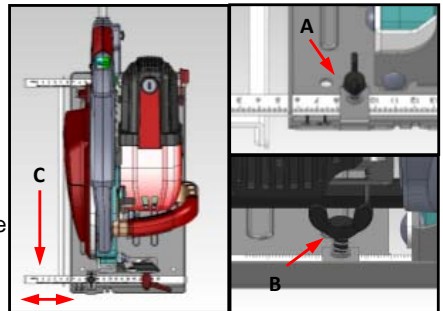


Fig.20

## SIGHTING NOTCH FOR FREE-HAND CUTTING

Sighting notches (A) near the front of the baseplate provides guidance. When performing free-hand cutting (at 90 degrees) the cutting line for the saw blade can be observed through a u-shaped sighted notch at the front of the base plate.

Align the cutting line on the workpiece with the v-shaped sighting notch at the front of the base plate when cutting at 45 degree angle. (This is due to the placement of the pivot point).

Turn saw on before contacting workpiece, wait until the blade reaches full RPM before proceeding with cut. Apply even pressure all of the way through cut to ensure proper blade operation and to obtain smoother cutting.

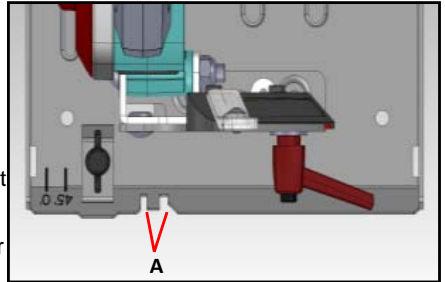


Fig.21

**Beware:** Beware of the kickback at the instant the running blade touches the workpiece.

## CHIP REMOVAL

### GLASS WINDOW

The chips can be observed through a glass window. When the chip shield area is half full, remove the cover by loosening the two bolts and empty the contents. Make sure the chips have been removed completely.

### Way to clean the cutting chips

1. Unscrew the knob bolts (A) on the blade housing.  
Refer to Fig.22
2. Remove chip shield (B). (keeping the bolts screwed on guard). Refer to Fig.23
3. Remove the chips.

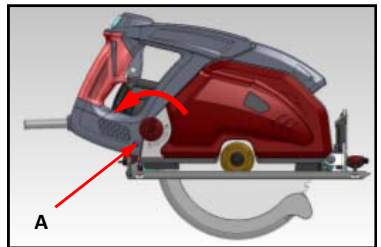


Fig.22

**Beware:** Always keep the saw away from your body when removing the chip shield, the chips will fall out. The chips could be very hot, be careful not to touch them when you remove the chip shield.

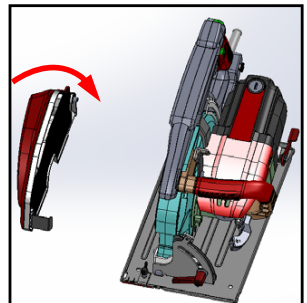


Fig.23

## LUBRICATION

See Fig. 24

This tool has been properly lubricated and is ready to use.

The recommended grease: Mobil HD 85W/140 Oil.

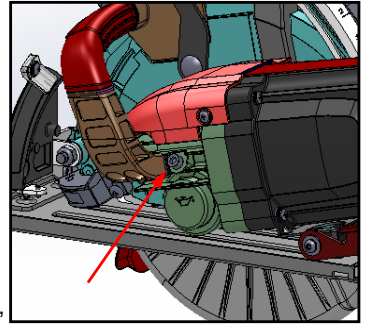
### Add the oil

Check oil level of the gear case once a year. Follow the procedure below to check and fill the oil. Unplug the tool. Place the saw on a horizontal position.

Use the 5mm HEX wrench to loosen the screw and removing the oil plug, using a small funnel [spout size is less than 3/16" (5mm).] Fill oil approximately 1.3 oz. (40cc), avoid spilling by visual check. Please use the "**Mobil HD 85W/140**" oil,

Fig.24

Once filled, replace the oil plug with the 5mm HEX wrench, do not over tighten. The O-ring under the head should be compressed slightly, over tightening will cause the O-ring to unseat and not seal properly.



## REPLACING CARBON BRUSHES

► **Caution:** Turn off the switch and disconnect plug from power supply before checking.

### REPLACE CARBON BRUSHES

Check brushes regularly, if worn down to 1/4" (6mm), Replace brushes. Carbon brushes should be clean and slide freely in holder. Carbon brushes should be replaced in pairs. Use a flat blade screwdriver to remove the brush cap (A), take out the worn carbon brush (B) insert new carbon brush and secure the brush holder cap. Refer to Fig.25

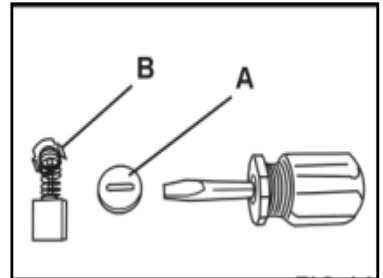


Fig.25

## MAINTENANCE AND SERVICING

Disconnect tool from power supply before carrying out any servicing and maintenance. Keep the machine clean. Never use a saw blade that is damaged or distorted. Replace the saw blade when it becomes dull. For service and replacement pieces see the replacement parts list and manufacturer website. Inspect the safety cover to assure that it is in good condition and moves smoothly. Never use the tool unless the safety cover operates properly and it is in good operating condition. After operation of the tool has been completed, make sure power plug has been disconnected from the receptacle and store it in a secure place out of the reach of children. Periodically remove chips in the chip cover and dust from the surface of the power tool with a damp cloth. Keep the tool away from contact with water or oil.

## TROUBLESHOOTING

SYMPTOM	POSSIBLE CAUSE	CORRECTIVE ACTION
• Saw won't start	• Loss of power supply	• Check power source
	• Brushes worn or sticking	• Check brushes
	• Switch is faulty	• Contact repair center
	• Possible short circuit	• Contact repair center
	• Cord damaged	• Contact repair center
• Unsatisfactory cuts	• Dull, damaged or incorrect blade	• Sharpen or replace blade
	• Motor is overloaded.	• Reduce pushing force
• Unusual sound	• Mechanical obstruction.	• Contact repair center
	• Possible short circuit	• Contact repair center
	• Blade out of balance	• Replace blade
• Heavy sparking inside motor housing	• Brush not moving freely	• Disconnect power, remove brushes and clean or replace
	• Possible short circuit/dirty commutator	• Contact repair center

## SPECIFICATIONS:

Rated voltage	110-120V~ 50/60Hz	220-240V~ 50/60Hz
Rated input	1800W	
No load speed	2300min <sup>-1</sup> (RPM)	
Arbor	15.9mm	
Saw blade diameter	230mm(9")	
Arm-held vibration	6.75m/s <sup>2</sup> k=1.5	
Weight	9.5kg	
Max. cutting depth at 90 °	83mm	
Max. cutting depth at 45 °	56.5mm	
Max. cutting thickness	13mm	
Sound power level	95.5 dB(A)	
Sound pressure level	93.8 dB(A)	



# REPLACEMENT PARTS

REF NO.	SLUGGER ORDER NUMBER	DESCRIPTION
1	69908120002	SET FLUTE COVER
2	69908120003	PIVOT
3	69908120004	GLASS
4	69908120005	DUST COVER SET
5	69908120006	DUST COVER HOOK PLATE
6	69908120007	LOCK WASHER
7	69908120008	BOLT, M4X0.7, 10MM, PAN HEAD, PHILLIPS
8	69908120009	FLAT HD SCREW
9	69908120010	DUST COVER PLATE
10	69908120009	FLAT HD SCREW
11	69908120012	ARBOR BOLT(BLADE BOLT)
12	69908120013	FLANGE
14	69908120015	O-TYPE RING
15	69908120016	WASHER
16	69908120017	BLADE WASHER
17	69908120018	SPACER RING
18	69908120019	EXTL RETAINING RING
19	69908120020	WASHER
20	69908120021	GUARD LOWER
21	69908120008	BOLT, M4X0.7, 10MM, PAN HEAD, PHILLIPS
22	69908120007	LOCK WASHER
23	69908120024	INNER BLADE GUARD
24	69908120025	SCREW (SELF-TAPPING, CLAMP)
25	69908120026	SCREW
26	69908120027	SPRING
27	69908120028	BOLT, FLAT HD
28	69908120025	SCREW (SELF-TAPPING, CLAMP)
29	69908120025	SCREW (SELF-TAPPING, CLAMP)
30	69908120031	UPPER GUARD
30.1	69908120032	WARNING LABEL
31	69908120033	SCREW
32	69908120034	TORSION SPRING
33	69908120035	BLADE GUARD FLITER
34	69908120036	FLAT WASHER
35	69908120068	LOCK WASHER
36	69908120038	CROSS RECESSED TRUSS HEAD SCREW
37	69908120038	CROSS RECESSED TRUSS HEAD SCREW
38	69908120040	BLADE GUARD LIFTING BLOCK

39	69908120041	LENS HOLDING PLATE
40	69908120004	GLASS
41	69908120038	CROSS RECESSED TRUSS HEAD SCREW
42	69908120036	FLAT WASHER
43	69908120045	CUSHION
44	69908120046	WIRE CAP
45	69908120047	BLADE GUARD PUSH LEVER
46	69908120048	AIR BAFFLE COVER
46.1	69908120049	WARNING LABEL
46.2	69908120050	WARNING LABEL
47	69908120038	CROSS RECESSED TRUSS HEAD SCREW
48	69908120052	GUARD PIVOT SCREW
49	69908120053	GRASP HANDLE
50	69908120054	HEX SOC HD SCREW
51	69908120055	WASHER
*A1	69908120056	GEAR BOX ASS'Y
62	69908120066	BOLT, M4X8MM, PAN HEAD, PHILLIPS
64	69908120069	OIL SEAL
65	69908120070	OIL SEAL BOX
66	69908120071	SCREW/M6X1MM
67	69908120072	WASHER/D5XD13X2T
68	69908120073	LED LIGHT CAP
69	69908120074	LED COVER
70	69908120075	LED LIGHT
71	69908120076	LED SEAT
72	69908120077	SCREW,M3X1.06, 8MM, PAN HEAD, PHILLIPS, PLASTITE
73	69908120078	PAN HEAD SCREW
74	69908120079	NYLON SCREW CAPS
75	69908120080	O-TYPE RING
76	69908120081	NYLON NUT
77	69908120082	BALL BEARING
78	69908120083	WORM GEAR
81	69908120085	OIL SEAL PLATE
82	69908120086	BALL BEARING
83	69908120087	ARMATURE ASS'Y WITH BEARING SET
84	69908120088	BALL BEARING
85	69908120089	PAN HD SELF-TAP SCREW/WASHER
86	69908120090	FIELD ASS'Y
87	69908120091	BRUSH HOLDER
88	69908120092	BRUSH

89	69908120093	BRUSH CAP
90	69908120094	REINFORCE PLATE
91	69908120095	SCREW PAN HEAD M5+WASHER
92	69908120096	MOTOR HOUSING
93	69908120097	GUIDE RULER
94	69908120098	RIVET
95	69908120099	WING SCREW
96	69908120100	WASHER
97	69908120101	BEVEL PLATE
98	69908120102	CUTTING DEPTH SCALE PLATE
99	69908120103	WASHER FENCE CIRCLE
100	69908120104	HEX BAR
101	69908120105	E-RING (ETW)
102	69908120106	SECURE LEVER
103	69908120107	FLAT WASHER
104	69908120108	LOCKING WASHER M5
105	69908120109	SOCKET SCREW
106	69908120099	WING SCREW
107	69908120111	SPRING SHAFT LOCK BUTTON
108	69908120112	SCREW
109	69908120113	BASE PLATE
110	69908120114	LOCK LEVER
111	69908120115	FLAT WASHER
112	69908120116	BEVEL LOCKING PLATE
113	69908120117	MITER INDICATOR
114	69908120118	CROSS RECESSED TRUSS HEAD SCREW
115	69908120119	SET SCREW
116	69908120120	NUT LOCKING
117	69908120121	CARRIAGE SCREW
118	69908120122	RACKET
118.1	69908120123	BEVEL SCALE
119	69908120009	FLAT HD SCREW
120	69908120125	BRACKET
121	69908120126	SOCKET SCREW
122	69908120025	SCREW (SELF-TAPPING, CLAMP)
123+135	69908120275	COMPLETE HANDLE
124	69908120129	POWER CORD
125	69908120130	CORD GUARD
126	69908120025	SCREW (SELF-TAPPING, CLAMP)
127	69908120132	SWITCH
128	69908120133	OVERLOAD

129	69908120134	LOCK BUTTON
130	69908120135	SPRING
131	69908120136	LED BUTTON
132	69908120137	LASER BUTTON
133	69908130138	BUTTON SWIRCH ASS'Y
134	69908120025	SCREW (SELF-TAPPING, CLAMP)
136	69908130141	SPRING
137	69908120142	LASER ASS'Y
138	69908120143	LASER FIXED RING
139	69908120144	O-TYPE RING
140	69908120145	TERMINAL BLOCK
141	69908120146	AC TO DC TRANSFORMER MODULES
144	69908120148	TRANSFORMER
145	69908120149	EXTRUDED TUBING
146	69908120150	WIRING CONNECTOR
147	69908120151	WIRING CONNECTOR
148	69908120152	WIRING CONNECTOR
149	69908120153	CORD CLAMP
150	69908120025	SCREW (SELF-TAPPING, CLAMP)
151	69908120155	SET SCREW
152	69908120156	SELF TAPPING SCREW
153	69908120157	SELF TAPPING SCREW
154	69908120158	SET SCREW
161	69908120160	WRENCH
162	69908120161	6MM HEX WRENCH
164	69908120163	LED FIXED PLATE
165	69908120108	LOCK WASHER M5
166	69908120165	NUT HEX M5X0.8
901	69908120273	AIR BLOWING CASE



Please read the instructions carefully before starting the machine.



Wear ear protection!



Always wear safety glasses when using the machine.



Always keep hands away from the path of the saw blade.



Always disconnect the plug from the socket before carrying out any work on the machine.



Never expose tool to rain.



Laser radiation. Avoid direct eye contact with light source.



Do not dispose of electric tools together with household waste material!



Caution: When cutting don't touch the metal parts to avoid burn.



Caution



Caution: Laser radiation do not stare into beam

FEIN Power Tools, Inc., 1030 Alcon Street, Pittsburgh, PA 15220

Tel. 412-922-8886, Toll Free: 1-800-441-9878, [www.feinus.com](http://www.feinus.com)



